Andrew Iheanacho

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Education

Bachelor of Computer Science – Honours (Co-op)   **Expected Graduation, Dec 2026**
University of Manitoba   Winnipeg, MB

Relevant Coursework:
- Data Structures & Algorithms, Software Engineering, Database Management Systems, Object-Oriented Programming, Distributed Computing, Operating Systems, Human-Computer Interaction.

Certificate:
- AWS Certified Cloud Practitioner

Experience

Software Engineer Intern   **May 2025 – Present**
Value Partners Investments   Winnipeg, MB
- Developing and maintaining scalable RESTful APIs in C#/.NET by applying Clean Architecture and SOLID principles to ensure maintainable, high-performance backend systems.
- Building and optimizing CI/CD pipelines in Azure DevOps to reduce manual deployment and increase release reliability.
- Refactoring frontend, backend and API endpoints for improved performance and reliability, writing unit tests with XUnit, and using Postman extensively for testing, and debugging across development environments.
- Creating responsive web applications using React, Next.js, TypeScript, JavaScript, Tailwind CSS, and MUI, to ensure UI consistency, accessibility, and user-centric design.
- Participating in frequent code reviews to enforce best practices, reduce technical debt, and maintain long-term scalability.

IT Support Analyst   **Sep. 2024 – Apr. 2025**
IST – Technology Services University of Manitoba   Winnipeg, MB
- Automated account provisioning and maintenance by developing PowerShell scripts to reduce manual setup time.
- Improved ticket resolution speed by building reusable automation scripts and tools that streamlined common workflows.
- Minimized system downtime and ensured reliability for 10,000+ users by resolving 30+ daily tickets through targeted troubleshooting of authentication, permissions, and system errors.
- Reduced repeat tickets by developing clear technical documentation and onboarding guides that prevented recurring issues.

Projects

AI-Powered Expense Tracker | *Node.js, Typescript, Express.js, AWS, Next.js, OpenAI, REST API*   **July 2025 – Aug. 2025**
- Built a full-stack Saas web app that allows users to track expenses, manage budgets and receive AI-powered financial insights through natural language queries using the AI assistant chatbot, currently serving 20+ users.
- Integrated an AI Assistant using **OpenAI GPT API** with custom **prompt engineering** that analyzes user financial data to provide spending insights, offer budget recommendations, help users navigate expenses and provide personalized financial advice.
- Utilized **Node.js**, and **Express.js** to create scalable **RESTful APIs** with modular architecture following **SOLID** principles.
- Deployed serverless backend on **AWS Lambda** with **DynamoDB** and built responsive frontend using **Next.js**, **Typescript** and **MUI**.
- Used **CloudFormation** for **IaC** to automate and manage cloud resources and implemented **CI/CD** pipelines using **GitHub Actions.**

StockTracker | *C#, Azure, Next.js, DevOps, CI/CD Pipelines, REST API*   **May 2025**
- Built and deployed a **.NET Azure Function App (C#)** serving **RESTful APIs** for stock data, top gainers, and losers.
- Created and deployed a frontend **Azure Static Web App (Next.js + Tailwind CSS)** connected to the backend via API routes.
- Implemented **CI/CD pipelines** with Azure DevOps for automated deployment of the function app and static web app.
- Tested and secured APIs with **Postman** and **Azure authentication**, while enabling zero-downtime rollouts via **deployment slots**.

Movie Discovery Web App | *React, Vite, Tailwind CSS, AppWrite, REST API*   **May 2025**
- Developed a responsive movie search platform using **React** and **Vite** to deliver real-time movie metadata via the **TMDB API**.
- Integrated **AppWrite** as the backend service to track and display the top 5 most searched movies based on user activity.
- Implemented **debouncing** logic to optimize API requests, reducing server load by **~90%** during user search input.

Technical Skills

Languages: TypeScript, JavaScript, Python, Java, C#, C++, C, SQL, HTML, CSS, XML
Frameworks & Libraries: Node.js, Express.js, .NET, React, Next.js, JUnit, Tailwind CSS, XUnit
Cloud & DevOps: Microsoft Azure, AWS, DevOps, CI/CD Pipelines
Tools & Platforms: Git, GitHub, Visual Studio, VS Code, Webpack, IntelliJ, AppWrite, Postman, Android Studio, Figma